Claims

- [c1] A preparation for topically delivering and localizing therapeutic agents, comprising:

 a vasoconstrictor for retarding vascular dispersion of a therapeutic agent; and

 a penetration enhancer for facilitating penetration of said vasoconstrictor and said therapeutic agent through a patient's skin.
- [c2] The preparation of [c1], said vasoconstrictor comprising *phenylephrine*.
- [c3] The preparation of [c2], wherein:
 a clinical concentration of said *phenylephrine* is at least
 approximately 0.125%; and
 said clinical concentration of said *phenylephrine* is at most
 approximately 1.0%.
- [c4] The preparation of [c3], wherein said clinical concentration of said *phenylephrine* is approximately 0.5%.
- [c5] The preparation of [c1], said vasoconstrictor comprising a vasoconstrictor selected from the vasoconstrictor group consisting of: *ephedrine sulfate*, *epinephrine*, *naphazoline*, and *oxymetazoline*.
- [c6] The preparation of [c1], said penetration enhancer comprising

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- [c7] The preparation of [c6], wherein a clinical concentration of said dimethylsulfoxide is at most approximately 10%.
- [c8] The preparation of **[c7]**, wherein said clinical concentration of said *dimethylsulfoxide* is approximately 10%.
- [c9] The preparation of [c1], said penetration enhancer comprising *lecithin*.
- [c10] The preparation of [c9], said penetration enhancer further comprising *ethoxy diglycol*.
- [c11] The preparation of [c9], wherein:
 a clinical concentration of said *lecithin* is at least approximately
 2%; and
 said clinical concentration of said *lecithin* is at most
 approximately 50%.
- [c12] The preparation of [c11], wherein:
 said clinical concentration of said *lecithin* is approximately 10% to
 12%.
- [c13] The preparation of [c1]:
 said vasoconstrictor comprising *phenylephrine*; and
 said penetration enhancer comprising *dimethylsulfoxide*.
- [c14] The preparation of [c13], wherein:

 a clinical concentration of said *phenylephrine* is at least

approximately 0.125%;

said clinical concentration of said *phenylephrine* is at most approximately 1.0%; and a clinical concentration of said *dimethylsulfoxide* is at most approximately 10%.

- [c15] The preparation of [c14], wherein:
 said clinical concentration of said *phenylephrine* is approximately
 0.5%; and
 said clinical concentration of said *dimethylsulfoxide* is
 approximately 10%.
- [c16] The preparation of [c13], wherein:

 a ratio of a clinical concentration of said *dimethylsulfoxide* to a clinical concentration of said *phenylephrine* is at most approximately 40 to 1.
- [c17] The preparation of [c1]:
 said vasoconstrictor comprising *phenylephrine*; and
 said penetration enhancer comprising *lecithin*.
- [c18] The preparation of [c17], said penetration enhancer further comprising *ethoxy diglycol*.
- [c19] The preparation of [c17], wherein:

 a clinical concentration of said *phenylephrine* is at least
 approximately 0.125%;
 said clinical concentration of said *phenylephrine* is at most

approximately 1.0%; and a clinical concentration of said *lecithin* is at most approximately 50%.

- [c20] The preparation of [c19], wherein:
 said clinical concentration of said *phenylephrine* is approximately
 0.5%; and
 said clinical concentration of said *lecithin* is approximately 10% to
 12%.
- [c21] The preparation of [c17], wherein:

 a ratio of a clinical concentration of said *lecithin* to a clinical concentration of said *phenylephrine* is at most approximately 200 to 1.
- [c22] The preparation of [c1], further comprising: said therapeutic agent.

therapeutic agent.

[c23]

comprising:
said therapeutic agent comprising a therapeutic pain-relieving
agent;
said penetration enhancer for facilitating penetration of said
therapeutic pain-relieving agent and said vasoconstrictor through
the patient's skin; and
said vasoconstrictor for retarding vascular dispersion of said

The preparation of [c22], particularly for relieving pain,

- [c24] The preparation of [c23], said therapeutic pain-relieving agent comprising:

 a local anesthetic.
- [c25] The preparation of [c24], said local anesthetic comprising bupivacaine.
- [c26] The preparation of [c25], wherein:
 a clinical concentration of said *bupivacaine* is at least
 approximately 2%; and
 said clinical concentration of said *bupivacaine* is at most
 approximately 10%.
- [c27] The preparation of [c26], wherein said clinical concentration of said *bupivacaine* is approximately 5%.
- [c28] The preparation of [c24], said local anesthetic comprising a local anesthetic selected from the local anesthetic group consisting of: mepivacaine, levobupivacaine, ropivacaine, chloroprocaine, procaine, lidocaine, etidocaine, benzocaine, tetracaine, and prilocaine.
- [c29] The preparation of [c23], said therapeutic pain-relieving agent comprising:

 a quick-onset, short-acting non-steroidal anti-inflammatory agent.
- [c30] The preparation of [c29], said quick-onset, short-acting non-steroidal anti-inflammatory agent comprising *ketoprofen*.

- [c31] The preparation of [c30], wherein:
 a clinical concentration of said *ketoprofen* is at least
 approximately 5%; and
 said clinical concentration of said *ketoprofen* is at most
 approximately 20%.
- [c32] The preparation of [c31], wherein said clinical concentration of said *ketoprofen* is approximately 10%.
- [c33] The preparation of [c29], said quick-onset, short-acting non-steroidal anti-inflammatory agent comprising a quick-onset, short-acting non-steroidal anti-inflammatory agent selected from the quick-onset, short-acting non-steroidal anti-inflammatory agent group consisting of: diclofenac, diflunisal, etodolac, fenoprofen, flurbiprofen, ibuprofen, indomethacin, and tolmetin.
- [c34] The preparation of [c23], said therapeutic pain-relieving agent comprising:

 a long-acting non-steroidal anti-inflammatory agent.
- [c35] The preparation of [c34], said long-acting non-steroidal anti-inflammatory agent comprising *piroxicam*.
- [c36] The preparation of [c35], wherein:
 a clinical concentration of said *piroxicam* is at least approximately
 0.5%; and
 said clinical concentration of said *piroxicam* is at most
 approximately 4%.

- [c37] The preparation of [c36], wherein said clinical concentration of said *piroxicam* is approximately 1.0%.
- [c38] The preparation of [c34], said long-acting non-steroidal anti-inflammatory agent comprising a long-acting non-steroidal anti-inflammatory agent selected from the long-acting non-steroidal anti-inflammatory agent group consisting of: *celecoxib*, *meloxicam*, *nabumetone*, *naproxen*, *oxaprozin*, *rofecoxib*, *sulindac*, and *valdecoxib*.
- [c39] The preparation of [c23], said therapeutic pain-relieving agent comprising:

 a local anesthetic; and a quick-onset, short-acting non-steroidal anti-inflammatory agent.
- [c40] The preparation of [c39]:
 said local anesthetic comprising *bupivacaine*; and
 said quick-onset, short-acting non-steroidal anti-inflammatory
 agent comprising *ketoprofen*.
- [c41] The preparation of [c23], said therapeutic pain-relieving agent comprising:

 a local anesthetic; and a long-acting non-steroidal anti-inflammatory agent.
- [c42] The preparation of [c41]:
 said local anesthetic comprising bupivacaine; and
 said long-acting non-steroidal anti-inflammatory agent comprising

piroxicam.

[c43] The preparation of [c23], said therapeutic pain-relieving agent comprising:

a quick-onset, short-acting non-steroidal anti-inflammatory agent; and

a long-acting non-steroidal anti-inflammatory agent.

[c44] The preparation of [c43]:

said quick-onset, short-acting non-steroidal anti-inflammatory agent comprising *ketoprofen*; and said long-acting non-steroidal anti-inflammatory agent comprising *piroxicam*.

[c45] The preparation of [c23], said therapeutic pain-relieving agent comprising:

a local anesthetic;

a quick-onset, short-acting non-steroidal anti-inflammatory agent; and

a long-acting non-steroidal anti-inflammatory agent.

[c46] The preparation of [c45]:

said local anesthetic comprising *bupivacaine*; said quick-onset, short-acting non-steroidal anti-inflammatory agent comprising *ketoprofen*; and said long-acting non-steroidal anti-inflammatory agent comprising *piroxicam*.

[c47] The preparation of [c46], wherein:

a clinical concentration of said *bupivacaine* is at least approximately 2%;

said clinical concentration of said *bupivacaine* is at most approximately 10%;

a clinical concentration of said *ketoprofen* is at least approximately 5%;

said clinical concentration of said *ketoprofen* is at most approximately 20%;

a clinical concentration of said *piroxicam* is at least approximately 0.5%; and

said clinical concentration of said *piroxicam* is at most approximately 4%.

[c48] The preparation of [c47], wherein:

said clinical concentration of said *bupivacaine* is approximately 5%;

said clinical concentration of said *ketoprofen* is approximately 10%; and

said clinical concentration of said *piroxicam* is approximately 1.0%.

[c49] The preparation of [c22], particularly for treating a viral disease, comprising:

said therapeutic agent comprising an antiviral agent; said penetration enhancer for facilitating penetration of said

antiviral agent and said vasoconstrictor through the patient's skin; and said vasoconstrictor for retarding vascular dispersion of said antiviral agent.

- [c50] The preparation of [c49], said antiviral agent comprising *2-deoxy-d-glucose*.
- [c51] The preparation of [c50], wherein:
 a clinical concentration of said 2-deoxy-d-glucose is at least
 approximately 0.1%; and
 said clinical concentration of said 2-deoxy-d-glucose is at most
 approximately 0.4%.
- [c52] The preparation of [c51], wherein: said clinical concentration of said *2-deoxy-d-glucose* is approximately 0.2%.
- [c53] The preparation of [c49], said antiviral agent comprising an antiviral agent selected from the antiviral agent group consisting of: *podofilox*, *acyclovir*, *penciclovir*, and *docosanol*.
- [c54] The preparation of [c23], particularly for relieving pain from a viral disease and treating the viral disease, comprising: said therapeutic agent further comprising an antiviral agent; said penetration enhancer for further facilitating penetration of said antiviral agent through the patient's skin; and said vasoconstrictor for further retarding vascular dispersion of

- said antiviral agent.
- [c55] The preparation of [c54], said antiviral agent comprising 2-deoxy-d-glucose.
- [c56] The preparation of [c55], wherein:
 a clinical concentration of said 2-deoxy-d-glucose is at least
 approximately 0.1%; and
 said clinical concentration of said 2-deoxy-d-glucose is at most
 approximately 0.4%.
- [c57] The preparation of [c56], wherein:
 said clinical concentration of said 2-deoxy-d-glucose is
 approximately 0.2%.
- [c58] The preparation of [c54], said antiviral agent comprising an antiviral agent selected from the antiviral agent group consisting of: podofilox, acyclovir, penciclovir, and docosanol.
- [c59] The preparation of [c45]:
 said vasoconstrictor comprising phenylephrine;
 said penetration enhancer comprising a penetration enhancing
 agent selected from the penetration-enhancing agent group
 consisting of dimethylsulfoxide and lecithin;
 said local anesthetic comprising bupivacaine;
 said quick-onset, short-acting non-steroidal anti-inflammatory
 agent comprising ketoprofen; and
 said long-acting non-steroidal anti-inflammatory agent comprising

piroxicam.

[c60] The preparation of [c59], wherein:

a clinical concentration of said *phenylephrine* is at least approximately 0.125%;

said clinical concentration of said *phenylephrine* is at most approximately 1.0%;

a clinical concentration of said *dimethylsulfoxide* is at most approximately 10%;

a clinical concentration of said *lecithin* is at most approximately 50%;

a clinical concentration of said *bupivacaine* is at least approximately 2%;

said clinical concentration of said *bupivacaine* is at most approximately 10%;

a clinical concentration of said *ketoprofen* is at least approximately 5%;

said clinical concentration of said *ketoprofen* is at most approximately 20%;

a clinical concentration of said *piroxicam* is at least approximately 0.5%; and

said clinical concentration of said *piroxicam* is at most approximately 4%.

[c61] The preparation of [c60], wherein:
said clinical concentration of said *phenylephrine* is approximately

0.5%;

said clinical concentration of said *bupivacaine* is approximately 5%;

said clinical concentration of said *ketoprofen* is approximately 10%; and

said clinical concentration of said *piroxicam* is approximately 1.0%.

- [c62] The preparation of [c45], additionally for treating a viral disease, said therapeutic agent further comprising:

 an antiviral agent.
- [c63] The preparation of [c62]:
 said vasoconstrictor comprising phenylephrine;
 said penetration enhancer comprising a penetration enhancing
 agent selected from the penetration-enhancing agent group
 consisting of dimethylsulfoxide and lecithin;
 said local anesthetic comprising bupivacaine;
 said quick-onset, short-acting non-steroidal anti-inflammatory
 agent comprising ketoprofen;
 said long-acting non-steroidal anti-inflammatory agent comprising
 piroxicam; and
 said antiviral agent comprising 2-deoxy-d-glucose.
- [c64] The preparation of [c63], wherein:
 a clinical concentration of said *phenylephrine* is at least approximately 0.125%;

said clinical concentration of said *phenylephrine* is at most approximately 1.0%;

a clinical concentration of said *dimethylsulfoxide* is at most approximately 10%;

a clinical concentration of said *lecithin* is at most approximately 50%;

a clinical concentration of said *bupivacaine* is at least approximately 2%;

said clinical concentration of said *bupivacaine* is at most approximately 10%;

a clinical concentration of said *ketoprofen* is at least approximately 5%;

said clinical concentration of said *ketoprofen* is at most approximately 20%;

a clinical concentration of said *piroxicam* is at least approximately 0.5%;

said clinical concentration of said *piroxicam* is at most approximately 4%;

a clinical concentration of said *2-deoxy-d-glucose* is at least approximately 0.1%; and

said clinical concentration of said *2-deoxy-d-glucose* is at most approximately 0.4%.

[c65] The preparation of [c64], wherein:
said clinical concentration of said *phenylephrine* is approximately

0.5%;

said clinical concentration of said *bupivacaine* is approximately 5%;

said clinical concentration of said *ketoprofen* is approximately 10%;

said clinical concentration of said *piroxicam* is approximately 1.0%; and

said clinical concentration of said *2-deoxy-d-glucose* is approximately 0.2%.

- [c66] A method of topically delivering and localizing therapeutic agents, comprising the steps of:
 using a vasoconstrictor for retarding vascular dispersion of a therapeutic agent; in combination with
 using a penetration enhancer for facilitating penetration of said vasoconstrictor and said therapeutic agent through a patient's skin.
- [c67] The method of [c66], said step of using said vasoconstrictor further comprising the step of using *phenylephrine*.
- [c68] The method of [c67], further comprising the steps of:
 using a clinical concentration of said *phenylephrine*, of at least
 approximately 0.125%; and
 using said clinical concentration of said *phenylephrine*, of at most
 approximately 1.0%.

- [c69] The method of **[c68]**, further comprising the step of using said clinical concentration of said *phenylephrine*, of approximately 0.5%.
- [c70] The method of [c66], said step of using said vasoconstrictor further comprising the step of using a vasoconstrictor selected from the vasoconstrictor group consisting of: *ephedrine sulfate*, *epinephrine*, *naphazoline*, and *oxymetazoline*.
- [c71] The method of [c66], said step of using said penetration enhancer further comprising the step of using *dimethylsulfoxide*.
- [c72] The method of [c71], further comprising the step of using a clinical concentration of said *dimethylsulfoxide*, of at most approximately 10%.
- [c73] The method of [c72], further comprising the step of using said clinical concentration of said *dimethylsulfoxide*, of approximately 10%.
- [c74] The method of [c66], said step of using said penetration enhancer further comprising the step of using comprising *lecithin*.
- [c75] The method of [c74], said step of using said penetration enhancer further comprising the step of using *ethoxy diglycol*.
- [c76] The method of [c74], further comprising the steps of:
 using a clinical concentration of said *lecithin*, of at least
 approximately 2%; and

- using said clinical concentration of said *lecithin*, of at most approximately 50%.
- [c77] The method of [c76], further comprising the step of:
 using said clinical concentration of said *lecithin*, of approximately
 10% to 12%.
- [c78] The method of [c66]:

 said step of using said vasoconstrictor further comprising the

 step of using *phenylephrine*; and

 said step of using said penetration enhancer further comprising
 the step of using *dimethylsulfoxide*.
- [c79] The method of [c78], further comprising the steps of:
 using a clinical concentration of said *phenylephrine*, of at least
 approximately 0.125%;
 using said clinical concentration of said *phenylephrine*, of at most
 approximately 1.0%; and
 using a clinical concentration of said *dimethylsulfoxide*, of at most
 approximately 10%.
- [c80] The method of [c79], further comprising the steps of:
 using said clinical concentration of said *phenylephrine*, of
 approximately 0.5%; and
 using said clinical concentration of said *dimethylsulfoxide*, of
 approximately 10%.
- [c81] The method of [c78], further comprising the step of:

using a ratio of a clinical concentration of said *dimethylsulfoxide* to a clinical concentration of said *phenylephrine*, of at most approximately 40 to 1.

- [c82] The method of [c66]:
 said step of using said vasoconstrictor further comprising the
 step of using *phenylephrine*; and
 said step of using said penetration enhancer further comprising
 the step of using *lecithin*.
- [c83] The method of [c82], said step of using said penetration enhancer further comprising the step of using *ethoxy diglycol*.
- [c84] The method of [c82], further comprising the steps of:
 using a clinical concentration of said *phenylephrine*, of at least
 approximately 0.125%;
 using said clinical concentration of said *phenylephrine*, of at most
 approximately 1.0%; and
 using a clinical concentration of said *lecithin*, of at most
 approximately 50%.
- [c85] The method of [c84], further comprising the steps of:
 using said clinical concentration of said *phenylephrine*, of
 approximately 0.5%; and
 using said clinical concentration of said *lecithin*, of approximately
 10% to 12%.
- [c86] The method of [c82], further comprising the step of:

using a ratio of a clinical concentration of said *lecithin* to a clinical concentration of said *phenylephrine*, of at most approximately 200 to 1.

- [c87] The method of [c66], further comprising the step of:
 using said therapeutic agent in combination with using said
 vasoconstrictor and using said penetration enhancer.
- [c88] The method of [c87], particularly for relieving pain:
 said step of using said therapeutic agent further comprising the
 step of using a therapeutic pain-relieving agent; further
 comprising the steps of:
 using said penetration enhancer for facilitating penetration of said
 therapeutic pain-relieving agent and said vasoconstrictor through
 the patient's skin; and
 using said vasoconstrictor for retarding vascular dispersion of
 said therapeutic agent.
- [c89] The method of [c88], said step of using said therapeutic painrelieving agent further comprising the step of using a local anesthetic.
- [c90] The method of [c89], said step of using said local anesthetic further comprising the step of using *bupivacaine*.
- [c91] The method of [c90], further comprising the steps of:
 using a clinical concentration of said *bupivacaine*, of at least
 approximately 2%; and

using said clinical concentration of said *bupivacaine*, of at most approximately 10%.

- [c92] The method of [c91], further comprising the step of using said clinical concentration of said *bupivacaine*, of approximately 5%.
- [c93] The method of [c89], said step of using said local anesthetic further comprising the step of using a local anesthetic selected from the local anesthetic group consisting of: *mepivacaine*, *levobupivacaine*, *ropivacaine*, *chloroprocaine*, *procaine*, *lidocaine*, *etidocaine*, *benzocaine*, *tetracaine*, and *prilocaine*.
- [c94] The method of [c88], said step of using said therapeutic painrelieving agent further comprising the step of using a quick-onset, short-acting non-steroidal anti-inflammatory agent.
- [c95] The method of [c94], said step of using said quick-onset, short-acting non-steroidal anti-inflammatory agent further comprising the step of using *ketoprofen*.
- [c96] The method of [c95], further comprising the step of:
 using a clinical concentration of said *ketoprofen*, of at least
 approximately 5%; and
 said clinical concentration of said *ketoprofen*, of at most
 approximately 20%.
- [c97] The method of [c96], further comprising the step of using said clinical concentration of said *ketoprofen*, of approximately 10%.

- [c98] The method of [c94], said step of using said quick-onset, short-acting non-steroidal anti-inflammatory agent further comprising the step of using a quick-onset, short-acting non-steroidal anti-inflammatory agent selected from the quick-onset, short-acting non-steroidal anti-inflammatory agent group consisting of: diclofenac, diflunisal, etodolac, fenoprofen, flurbiprofen, ibuprofen, indomethacin, and tolmetin.
- [c99] The method of [c88], said step of using said therapeutic painrelieving agent further comprising the step of using a long-acting non-steroidal anti-inflammatory agent.
- [c100] The method of [c99], said step of using said long-acting nonsteroidal anti-inflammatory agent further comprising the step of using *piroxicam*.
- [c101] The method of [c100], further comprising the steps of:
 using a clinical concentration of said *piroxicam*, of at least
 approximately 0.5%; and
 using said clinical concentration of said *piroxicam*, of at most
 approximately 4%.
- [c102] The method of [c101], further comprising the step of using said clinical concentration of said *piroxicam*, of approximately 1.0%.
- [c103] The method of [c99], said step of using said long-acting nonsteroidal anti-inflammatory agent further comprising the step of using a long-acting non-steroidal anti-inflammatory agent

selected from the long-acting non-steroidal anti-inflammatory agent group consisting of: *celecoxib*, *meloxicam*, *nabumetone*, *naproxen*, *oxaprozin*, *rofecoxib*, *sulindac*, and *valdecoxib*.

- [c104] The method of [c88], said step of using said therapeutic painrelieving agent further comprising the steps of:
 using a local anesthetic; and
 using a quick-onset, short-acting non-steroidal anti-inflammatory
 agent.
- [c105] The method of [c104]:
 said step of using said local anesthetic further comprising the step of using *bupivacaine*; and
 said step of using said quick-onset, short-acting non-steroidal anti-inflammatory agent further comprising the step of using *ketoprofen*.
- [c106] The method of [c88], said step of using said therapeutic painrelieving agent further comprising the steps of::
 using a local anesthetic; and
 using a long-acting non-steroidal anti-inflammatory agent.
- [c107] The method of [c106]:
 said step of using said local anesthetic further comprising the
 step of using *bupivacaine*; and
 said step of using said long-acting non-steroidal antiinflammatory agent further comprising the step of using

piroxicam.

[c108] The method of [c88], said step of using said therapeutic painrelieving agent further comprising the steps of::
using a quick-onset, short-acting non-steroidal anti-inflammatory
agent; and
using a long-acting non-steroidal anti-inflammatory agent.

[c109] The method of [c108]:
said step of using said quick-onset, short-acting non-steroidal
anti-inflammatory agent further comprising the step of using
ketoprofen; and
said step of using said long-acting non-steroidal antiinflammatory agent further comprising the step of using
piroxicam.

[c110] The method of [c88], said step of using said therapeutic painrelieving agent further comprising the steps of:
using a local anesthetic;
using a quick-onset, short-acting non-steroidal anti-inflammatory
agent; and
using a long-acting non-steroidal anti-inflammatory agent.

[c111] The method of [c110]:

said step of using said local anesthetic further comprising the step of using bupivacaine;

said step of using said quick-onset, short-acting non-steroidal

anti-inflammatory agent further comprising the step of using *ketoprofen*; and said step of using said long-acting non-steroidal anti-inflammatory agent further comprising the step of using *piroxicam*.

[c112] The method of [c111], further comprising the steps of:
using a clinical concentration of said *bupivacaine*, of at least
approximately 2%;
using said clinical concentration of said *bupivacaine*, of at most
approximately 10%;
using a clinical concentration of said *ketoprofen*, of at least
approximately 5%;
using said clinical concentration of said *ketoprofen*, of at most
approximately 20%;
using a clinical concentration of said *piroxicam*, of at least
approximately 0.5%; and
using said clinical concentration of said *piroxicam*, of at most

[c113] The method of [c112], further comprising the steps of:
using said clinical concentration of said *bupivacaine*, of
approximately 5%;
using said clinical concentration of said *ketoprofen*, of
approximately 10%; and
using said clinical concentration of said *piroxicam*, of

approximately 4%.

approximately 1.0%.

- [c114] The method of [c87], particularly for treating a viral disease: said step of using said therapeutic agent further comprising the step of using an antiviral agent; further comprising the steps of: using said penetration enhancer for facilitating penetration of said antiviral agent and said vasoconstrictor through the patient's skin; and using said vasoconstrictor for retarding vascular dispersion of said antiviral agent.
- [c115] The method of [c114], said step of using said antiviral agent further comprising the step of using *2-deoxy-d-glucose*.
- [c116] The method of [c115], further comprising the steps of:
 using a clinical concentration of said *2-deoxy-d-glucose*, of at
 least approximately 0.1%; and
 using said clinical concentration of said *2-deoxy-d-glucose*, of at
 most approximately 0.4%.
- [c117] The method of [c116], further comprising the step of:
 using said clinical concentration of said *2-deoxy-d-glucose*, of
 approximately 0.2%.
- [c118] The method of [c114], said step of using said antiviral agent further comprising the step of using an antiviral agent selected from the antiviral agent group consisting of: *podofilox*, *acyclovir*, *penciclovir*, and *docosanol*.

- [c119] The method of [c88], particularly for relieving pain from a viral disease and treating the viral disease:
 said step of using said therapeutic agent further comprising the step of using an antiviral agent; further comprising the steps of:
 using said penetration enhancer for further facilitating penetration of said antiviral agent through the patient's skin; and using said vasoconstrictor for further retarding vascular dispersion of said antiviral agent.
- [c120] The method of [c119], said step of using said antiviral agent further comprising the step of using *2-deoxy-d-glucose*.
- [c121] The method of [c120], further comprising the steps of:
 using a clinical concentration of said *2-deoxy-d-glucose*, of at
 least approximately 0.1%; and
 using said clinical concentration of said *2-deoxy-d-glucose*, of at
 most approximately 0.4%.
- [c122] The method of [c121], further comprising the step of:
 using said clinical concentration of said *2-deoxy-d-glucose*, of
 approximately 0.2%.
- [c123] The method of [c119], said step of using said antiviral agent further comprising the step of using an antiviral agent selected from the antiviral agent group consisting of: *podofilox*, *acyclovir*, *penciclovir*, and *docosanol*.
- [c124] The method of [c110]:

said step of using said vasoconstrictor further comprising the step of using *phenylephrine*;

said step of using said penetration enhancer further comprising the step of using a penetration enhancing agent selected from the penetration-enhancing agent group consisting of dimethylsulfoxide and lecithin;

said step of using said local anesthetic further comprising the step of using *bupivacaine*;

said step of using said quick-onset, short-acting non-steroidal anti-inflammatory agent further comprising the step of using *ketoprofen*; and

said step of using said long-acting non-steroidal antiinflammatory agent further comprising the step of using *piroxicam*.

[c125] The method of [c124], further comprising the steps of:
using a clinical concentration of said *phenylephrine*, of at least approximately 0.125%;

using said clinical concentration of said *phenylephrine*, of at most approximately 1.0%;

using a clinical concentration of said *dimethylsulfoxide*, of at most approximately 10%;

using a clinical concentration of said *lecithin*, of at most approximately 50%;

using a clinical concentration of said bupivacaine, of at least

approximately 2%;

using said clinical concentration of said *bupivacaine*, of at most approximately 10%;

using a clinical concentration of said *ketoprofen*, of at least approximately 5%;

using said clinical concentration of said *ketoprofen*, of at most approximately 20%;

using a clinical concentration of said *piroxicam*, of at least approximately 0.5%; and

using said clinical concentration of said *piroxicam*, of at most approximately 4%.

[c126] The method of [c125], further comprising the steps of: using said clinical concentration of said *phenylephrine*, of approximately 0.5%;

using said clinical concentration of said *bupivacaine*, of approximately 5%;

using said clinical concentration of said *ketoprofen*, of approximately 10%; and

using said clinical concentration of said *piroxicam*, of approximately 1.0%.

- [c127] The method of [c110], additionally for treating a viral disease, said step of using said therapeutic agent further comprising the step of using an antiviral agent.
- [c128] The method of [c127]:

said step of using said vasoconstrictor further comprising the step of using *phenylephrine*;

said step of using said penetration enhancer further comprising the step of using a penetration enhancing agent selected from the penetration-enhancing agent group consisting of dimethylsulfoxide and lecithin;

said step of using said local anesthetic further comprising the step of using *bupivacaine*;

said step of using said quick-onset, short-acting non-steroidal anti-inflammatory agent further comprising the step of using *ketoprofen*;

said step of using said long-acting non-steroidal antiinflammatory agent further comprising the step of using *piroxicam*; and

said step of using said antiviral agent further comprising the step of using *2-deoxy-d-glucose*.

[c129] The method of [c128], further comprising the steps of:
using a clinical concentration of said *phenylephrine*, of at least approximately 0.125%;

using said clinical concentration of said *phenylephrine*, of at most approximately 1.0%;

using a clinical concentration of said *dimethylsulfoxide*, of at most approximately 10%;

using a clinical concentration of said *lecithin*, of at most

approximately 50%;

using a clinical concentration of said *bupivacaine*, of at least approximately 2%;

using said clinical concentration of said *bupivacaine*, of at most approximately 10%;

using a clinical concentration of said *ketoprofen*, of at least approximately 5%;

using said clinical concentration of said *ketoprofen*, of at most approximately 20%;

using a clinical concentration of said *piroxicam*, of at least approximately 0.5%;

using said clinical concentration of said *piroxicam*, of at most approximately 4%;

using a clinical concentration of said *2-deoxy-d-glucose*, of at least approximately 0.1%; and

using said clinical concentration of said *2-deoxy-d-glucose*, of at most approximately 0.4%.

[c130] The method of [c129], further comprising the steps of: using said clinical concentration of said *phenylephrine*, of approximately 0.5%;

using said clinical concentration of said *bupivacaine*, of approximately 5%;

using said clinical concentration of said *ketoprofen*, of approximately 10%;

using said clinical concentration of said *piroxicam*, of approximately 1.0%; and using said clinical concentration of said *2-deoxy-d-glucose*, of approximately 0.2%.

- [c131] The method of [c66], further comprising the step of:
 applying said vasoconstrictor and said penetration enhancer to
 the patient's skin.
- [c132] The method of [c78], further comprising the step of: applying said *phenylephrine* and said *dimethylsulfoxide* to the patient's skin.
- [c133] The method of [c82], further comprising the step of:
 applying said *phenylephrine* and said *lecithin* to the patient's skin.
- [c134] The method of [c87], further comprising the step of:
 applying said vasoconstrictor, said penetration enhancer, and
 said therapeutic agent to the patient's skin.
- [c135] The method of [c88], further comprising the step of:
 applying said vasoconstrictor, said penetration enhancer, and
 said therapeutic pain-relieving agent to the patient's skin.
- [c136] The method of [c89], further comprising the step of:
 applying said vasoconstrictor, said penetration enhancer, and
 said local anesthetic to the patient's skin.

- [c137] The method of [c90], further comprising the step of:
 applying said vasoconstrictor, said penetration enhancer, and
 said *bupivacaine* to the patient's skin.
- [c138] The method of [c94], further comprising the step of:
 applying said vasoconstrictor, said penetration enhancer, and
 said quick-onset, short-acting non-steroidal anti-inflammatory
 agent to the patient's skin.
- [c139] The method of [c95], further comprising the step of: applying said vasoconstrictor, said penetration enhancer, and said *ketoprofen* to the patient's skin.
- [c140] The method of [c99], further comprising the step of:
 applying said vasoconstrictor, said penetration enhancer, and
 said long-acting non-steroidal anti-inflammatory agent to the
 patient's skin.
- [c141] The method of [c100], further comprising the step of:
 applying said vasoconstrictor, said penetration enhancer, and said *piroxicam* to the patient's skin.
- [c142] The method of [c110], further comprising the step of:
 applying said vasoconstrictor, said penetration enhancer, said
 local anesthetic, said quick-onset, short-acting non-steroidal antiinflammatory agent, and said long-acting non-steroidal antiinflammatory agent to the patient's skin.

- [c143] The method of [c111], further comprising the step of:
 applying said vasoconstrictor, said penetration enhancer, said
 bupivacaine, said ketoprofen, and said piroxicam to the patient's
 skin.
- [c144] The method of [c114], further comprising the step of: applying said vasoconstrictor, said penetration enhancer, and said antiviral agent to the patient's skin.
- [c145] The method of [c115], further comprising the step of:
 applying said vasoconstrictor, said penetration enhancer, and said 2-deoxy-d-glucose to the patient's skin.
- [c146] The method of [c119], further comprising the step of:
 applying said vasoconstrictor, said penetration enhancer,
 therapeutic pain-relieving agent, and said antiviral agent to the
 patient's skin.
- [c147] The method of [c120], further comprising the step of:
 applying said vasoconstrictor, said penetration enhancer,
 therapeutic pain-relieving agent, and said *2-deoxy-d-glucose* to
 the patient's skin.
- [c148] The method of [c124], further comprising the step of:
 applying said *phenylephrine*, said penetration enhancing agent
 selected from the penetration-enhancing agent group consisting
 of *dimethylsulfoxide* and *lecithin*, said *bupivacaine*, said *ketoprofen*, and said *piroxicam* to the patient's skin.

- [c149] The method of [c127], further comprising the step of:
 applying said vasoconstrictor, said penetration enhancer, said
 local anesthetic, said quick-onset, short-acting non-steroidal antiinflammatory agent, said long-acting non-steroidal antiinflammatory agent, and said antiviral agent to the patient's skin.
- [c150] The method of [c128], further comprising the step of:
 applying said *phenylephrine*, said penetration enhancing agent
 selected from the penetration-enhancing agent group consisting
 of *dimethylsulfoxide* and *lecithin*, said *bupivacaine*, said *ketoprofen*, said *piroxicam*, and said *2-deoxy-d-glucose* to the
 patient's skin.